Discovery Challenge (with a buddy) Name:

1. What are the dimensions of a regular piece of notebook paper (in inches)?
2. What’s the area of that piece of paper? Remember your units.
3. Oh, no. We’ve got to subtract the holes that have been punched out! The radius of each of these holes is .14 inches. What is the area of one hole punched circle? Round to two decimal places. Remember your units.
4. Subtract the area of your *three* hole-punched circles from the area of the paper you calculated in #2 to find the exact area of this piece of paper. Remember your units.
5. This piece of paper is .003 inches thick. What’s the volume of this piece of paper? Round to two decimal places. Remember your units.
6. Is a piece of paper a rectangular prism? Why or why not?

1. Find the volume of each of the following stacks of paper (remember the units):

10 sheets of paper: 50 sheets of paper:

300 sheets of paper: 20,000 sheets of paper:

1. You need to throw away 20,000 sheets of paper, for some reason. Your dumpster has a 400 ft3 capacity. Will all the paper fit?